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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/772,460	02/06/2004	Siegfried Meyer	MR1035-1225	6713
4586	7590	11/14/2006	EXAMINER	
ROSENBERG, KLEIN & LEE 3458 ELLICOTT CENTER DRIVE-SUITE 101 ELLICOTT CITY, MD 21043			LUONG, VINH	
			ART UNIT	PAPER NUMBER
			3682	

DATE MAILED: 11/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/772,460	Applicant(s) MEYER, SIEGFRIED	
	Examiner Vinh T. Luong	Art Unit 3682	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 February 2004.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

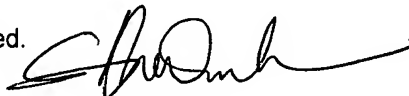
Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 February 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.


Vinh T. Luong
Primary Examiner

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input checked="" type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input checked="" type="checkbox"/> Other: <u>Attachment</u> |

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1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

2. The abstract of the disclosure is objected to because of the implied phrase "is disclosed."

Correction is required. See MPEP § 608.01(b).

3. The drawings are objected to because the drawings are not in compliance with 37 CFR 1.84 as seen in Form PTO-948 attached.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will

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be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Anthony (US Patent No. 2,217,721).

Regarding claim 1, Anthony teaches a spring-based crankshaft coupling structure used in an engine and coupled between a piston 23 and a crankshaft 24 to enhance the output torque of the engine, comprising:

a first coupling member 50, 49, 40 pivoted to said piston 23, said first coupling member comprising a downwardly extended receiving open chamber (unnumbered in Figs. 1 and 3. See Attachment or "Att.") defined in a downwardly extended hollow body 49 thereof and an inner tube 40 suspended in said downwardly extended receiving open chamber inside said downwardly extended hollow body 49;

a second coupling member 25, 36 pivoted to said crankshaft 24, said second coupling member 25, 36 comprising an upwardly extended hollow body 36 inserted into the downwardly extended receiving open chamber (Att.) and axially movably sleeved onto said inner tube 40, and an upwardly extended receiving open chamber (Att.) defined in said upwardly extended hollow body 36 thereof and adapted to receive said inner tube 40; and

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an axially compressible spring member 39 or 38 mounted in said inner tube 40 inside said first coupling member 50, 49, 40 and coupled between said first coupling member 50, 49, 40 and said second coupling member 25, 36. See page 2, right column, line 37 through page 3, left column, line 15.

Regarding claim 2, said first coupling member 50, 49, 40 comprises a (first) stem (Att.) coaxially suspended inside said inner tube 40; said second coupling member 25, 36 comprises a (second) stem (Att.) suspended in said upwardly extended receiving open chamber (Att.) and aimed at the (first) stem (Att.) of said first coupling member 50, 49, 40; said axially compressible spring member 38 has two ends respectively fastened to the (first) stem (Att.) inside said first coupling member 50, 49, 40 and the (second) stem (Att.) inside said second coupling member 25, 36.

Regarding claim 3, stop means, such as, e.g., 48 is adapted to limit the distance of axial movement of said second coupling member 25, 36 relative to said first coupling member 50, 49, 40. See page 3, right column, lines 53-65.

Regarding claim 4, said stop means comprises a first annular stop flange 44 radially inwardly protruded from a bottom end of the hollow body 49 of said first coupling member 50, 49, 40 and disposed in contact with the periphery of the hollow body 36 of said second coupling member 25, 36, and a second annular stop flange 46 radially outwardly protruded from a top end of the hollow body 36 of said second coupling member 25, 36 and disposed in contact with an inside wall of the hollow body 49 of said first coupling member 49. See Fig. 3 and page 2, right column, lines 50-74.

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Regarding claim 5, said axially compressible spring member is a compression spring 38 or 39.

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Meyer'633 (spring 15), El Tahry et al. (spring 34 in Fig. 1), Kramer et al.(Figs. 1-6), and Galvin (spring 3c in Fig. 3).

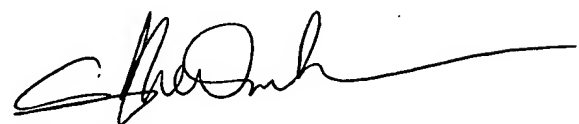
7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vinh T. Luong whose telephone number is 571-272-7109. The examiner can normally be reached on Monday - Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Ridley can be reached on 571-272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Luong

November 11, 2006



Vinh T. Luong
Primary Examiner

ATTACHMENT

Oct. 15, 1940.

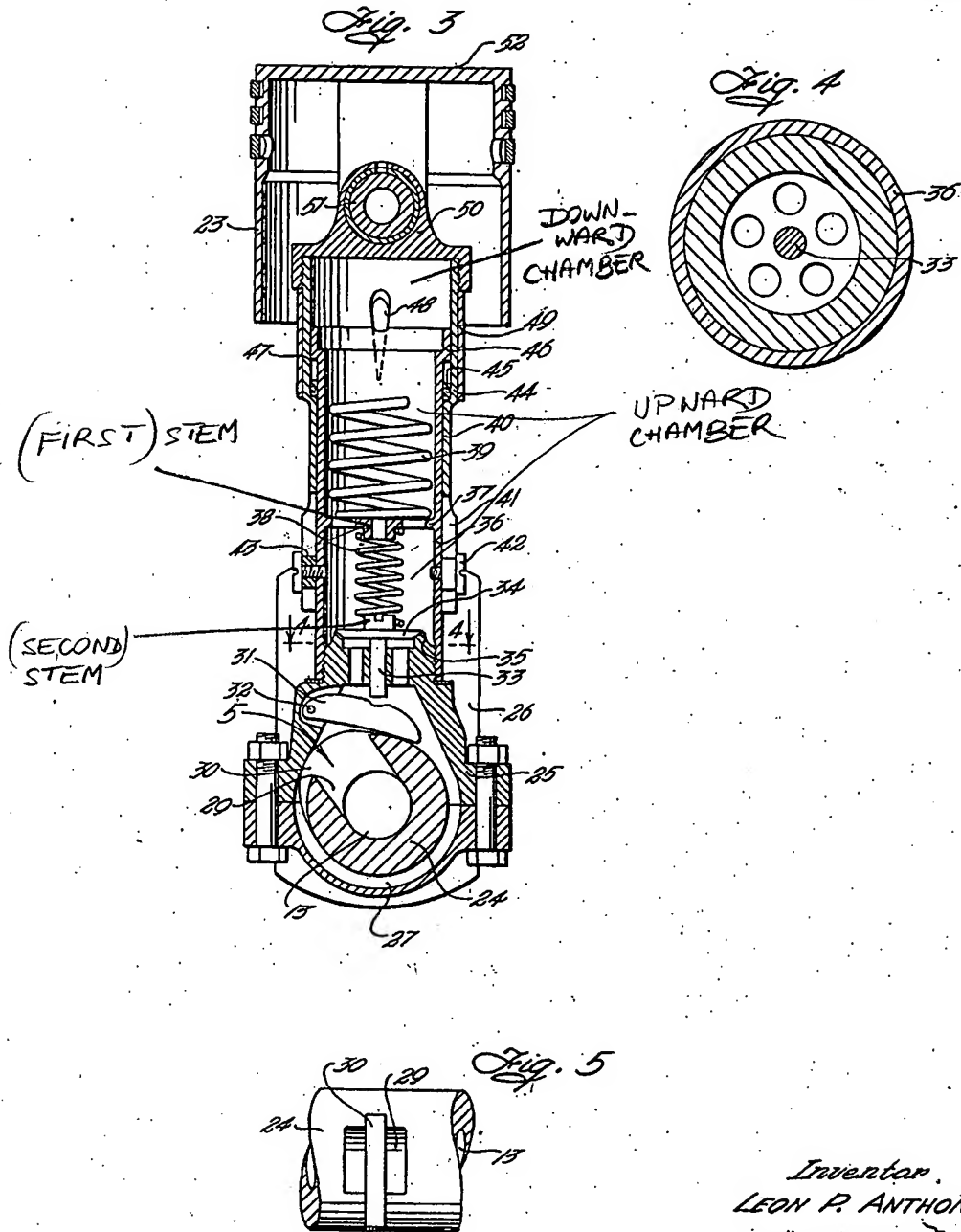
L. P. ANTHONY

2,217,721

INTERNAL COMBUSTION ENGINE

Filed Sept. 14, 1938

4 Sheets-Sheet 2



Inventor
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By Hazard and Miller
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